



August 2003 Time Local/ Path Length Path Number of Estimated Persons Width Damage LAKE ERIE LEZ166 Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border Avon Point to Willowick Marine Tstm Wind (EG35) Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border LEZ163 Reno Beach to 1945EST Marine Tstm Wind (EG35) The Islands Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border **LEZ164** Marine Tstm Wind (EG35) The Islands to Vermilion **LEZ165** Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border 1945EST 2115EST Vermilion to Marine Tstm Wind (EG35) **Avon Point LEZ143** Reno Beach To The Islands Oh Reno Beach to The Islands 1945EST 2115EST 0 0 Marine Tstm Wind (EG35) The Islands To Vermilion Oh LEZ144 The Islands to 1945EST 2115EST 0 0 Marine Tstm Wind (EG35) Vermilion **Vermilion To Avon Point Oh LEZ145** Vermilion to Avon Point 0 Marine Tstm Wind (EG35) A line of strong thunderstorms moved east across Lake Erie and produced wind gusts in excess of 35 knots. LEZ164 Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border The Islands to 1345EST 1430EST Marine Tstm Wind (EG35) Vermilion Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border LEZ165 Vermilion to Marine Tstm Wind (EG35) **Avon Point** The Islands To Vermilion Oh **LEZ144** 1345EST 1430EST The Islands to 03 0 Marine Tstm Wind (EG35) Vermilion **LEZ145** Vermilion To Avon Point Oh Vermilion to Avon Point Marine Tstm Wind (EG35) Strong thunderstorms moved north across Lake Erie and produced wind gusts in excess of 35 knots. LEZ146 Avon Point To Willowick Oh Avon Point to Willowick 1430EST 0 Marine Tstm Wind (EG35) 1530EST Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border Avon Point to Willowick Marine Tstm Wind (EG35) **LEZ165** Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border 1430EST 1530EST Vermilion to Marine Tstm Wind (EG35) **Avon Point** Vermilion To Avon Point Oh LEZ145 Vermilion to Avon Point Marine Tstm Wind (EG35) 03 Thunderstorms move north to northeast across Lake Erie and produced wind gusts in excess of 35 knots. **LEZ162** Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border 2300EST 0015EST Marine Tstm Wind (EG35) Maumee Bay to Reno Beach



Number of

Estimated

Path



August 2003

Time Local/ Path Length Persons Width Damage LAKE ERIE Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border **LEZ163** Reno Beach to The Islands Marine Tstm Wind (EG35) LEZ164 Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border The Islands to 2300EST Marine Tstm Wind (EG35) Vermilion 0015EST Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border **LEZ165** Marine Tstm Wind (EG35) Vermilion to **Avon Point LEZ142** Maumee Bay To Reno Beach Oh 2300EST 0015EST Maumee Bay to 0 0 Marine Tstm Wind (EG35) Reno Beach **LEZ143** Reno Beach To The Islands Oh Reno Beach to The Islands 2300EST 0015EST O 0 Marine Tstm Wind (EG35) The Islands To Vermilion Oh LEZ144 The Islands to 2300EST 0 Marine Tstm Wind (EG35) 0 0015EST Vermilion **Vermilion To Avon Point Oh LEZ145** Vermilion to Avon Point 0 Marine Tstm Wind (EG35) Strong thunderstorms moved east across Lake Erie and produced wind gusts in excess of 35 knots. LEZ146 **Avon Point To Willowick Oh** Avon Point to Willowick 1300EST 0 Marine Tstm Wind (EG35) 1500EST Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border LEZ166 Avon Point to Willowick Marine Tstm Wind (EG35) **LEZ167** Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border 1300EST 1500EST Willowick to Marine Tstm Wind (EG35) Geneva-On-The-Lake Willowick To Geneva On The Lake Oh Willowick to Geneva-On-The-Lake Marine Tstm Wind (EG35) Strong thunderstorms moved northeast across Lake Erie and produced wind gusts in excess of 35 knots. LEZ146 Avon Point To Willowick Oh Avon Point to Willowick 1400EST 0 0 Marine Tstm Wind (EG35) 1730EST **LEZ149** Conneaut Oh To Ripley Ny 1400EST 1730EST Marine Tstm Wind (EG35) Ripley Ny **LEZ148** Geneva On The Lake Oh To Conneaut Oh 1400EST 1730EST Geneva-On-The-Lake to Marine Tstm Wind (EG35) Conneaut Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border LEZ166 Avon Point to Willowick Marine Tstm Wind (EG35) Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border LEZ169 1400EST 1730EST Marine Tstm Wind (EG35) Conneaut to Ripley Ny 04 Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border Maumee Bay to 1400EST 1730EST Marine Tstm Wind (EG35) Reno Beach





Time Location Date Standard (Miles) (Yards) Roth Number of Estimated Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

#### **LAKE ERIE**

| LEZ168   | Le Gen                                       | neva On The Lake To Conneaut Oh Byd 5Nn  | ı Offshore  | To Intl Rorder                  |  |
|--|--|--|-------------|---------------------------------|--|
| Geneva-On-The-Lake to<br>Conneaut  | 04   | 1400EST<br>1730EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ163   | Le Ren                                       | o Beach To The Islands Oh Byd 5Nm Offsho   | ore To Intl | Border                          |  |
| Reno Beach to<br>The Islands   | 04   | 1400EST<br>1730EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ164   | Le The                                       | Islands To Vermilion Oh Byd 5Nm Offshor  | e To Intl E | Border                          |  |
| The Islands to<br>Vermilion  | 04   | 1400EST<br>1730EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ165   | Le Ver                                       | milion To Avon Pt Oh Byd 5Nm Offshore To   | Intl Bord   | ler                             |  |
| Vermilion to<br>Avon Point   | 04   | 1400EST<br>1730EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ167   | Le Wil                                       | lowick To Geneva On The Lake Oh Byd 5Nr  | n Offshore  | e To Intl Border                |  |
| Willowick to<br>Geneva-On-The-Lake   | 04   | 1400EST<br>1730EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ142   | Maumo  | ee Bay To Reno Beach Oh  |             |                                 |  |
| Maumee Bay to<br>Reno Beach  | 04   | 1400EST<br>1730EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ143   | Reno B                                       | each To The Islands Oh   |             |                                 |  |
| Reno Beach to<br>The Islands   | 04   | 1400EST<br>1730EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ144   | The Isl                                      | ands To Vermilion Oh   |             |                                 |  |
| The Islands to<br>Vermilion  | 04   | 1400EST<br>1730EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ145   | Vermil                                       | ion To Avon Point Oh   |             |                                 |  |
| Vermilion to<br>Avon Point   | 04   | 1400EST<br>1730EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ147   | Willow                                       | ick To Geneva On The Lake Oh   |             |                                 |  |
| Willowick to<br>Geneva-On-The-Lake   | 04   | 1400EST<br>1730EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
|  | Strong                                       | thunderstorms moved northeast across Lake Er   | ie and prod | duced wind gusts in excess of 3 | 35 knots.  |
| LEZ162   | Le Det                                       | roit R Lt To Reno Beach Oh Byd 5Nm Offsh   | ore To Int  | l Rorder                        |  |
| Maumee Bay to<br>Reno Beach  | 04   | 1745EST<br>1930EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ163   | I o Don                                      | to Beach To The Islands Oh Byd 5Nm Offsho  | ro To Intl  | Rordor                          |  |
| Reno Beach to  | 04   | 1745EST  | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| The Islands  |  | 1930EST  |             |                                 |  |
| LEZ164   | Le The                                       | Islands To Vermilion Oh Byd 5Nm Offshor  | e To Intl E | Border                          |  |
| The Islands to<br>Vermilion  | 04   | 1745EST<br>1930EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ165   | Le Ver                                       | milion To Avon Pt Oh Byd 5Nm Offshore To   | Intl Bord   | ler                             |  |
| Vermilion to<br>Avon Point   | 0.4  |  |             |                                 |  |
|  | 04   | 1745EST<br>1930EST   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ142   |  |  | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| LEZ142<br>Maumee Bay to<br>Reno Beach  |  | 1930EST  | 0           | 0                               | Marine Tstm Wind (EG35)  Marine Tstm Wind (EG35) |
| Maumee Bay to  | Maumo  | 1930EST<br>ee Bay To Reno Beach Oh<br>1745EST  |             |                                 |  |
| Maumee Bay to<br>Reno Beach  | Maumo  | 1930EST<br>ee Bay To Reno Beach Oh<br>1745EST<br>1930EST   |             |                                 |  |
| Maumee Bay to<br>Reno Beach<br>LEZ143<br>Reno Beach to   | Maumo<br>04<br>Reno B<br>04                  | 1930EST ee Bay To Reno Beach Oh 1745EST 1930EST eeach To The Islands Oh 1745EST  | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| Maumee Bay to<br>Reno Beach<br>LEZ143<br>Reno Beach to<br>The Islands  | Maumo<br>04<br>Reno B<br>04                  | 1930EST  see Bay To Reno Beach Oh 1745EST 1930EST  seach To The Islands Oh 1745EST 1930EST                                   | 0           | 0                               | Marine Tstm Wind (EG35)                          |
| Maumee Bay to<br>Reno Beach<br>LEZ143<br>Reno Beach to<br>The Islands<br>LEZ144<br>The Islands to              | Maumo<br>04<br>Reno B<br>04<br>The Isl<br>04 | 1930EST ee Bay To Reno Beach Oh 1745EST 1930EST eeach To The Islands Oh 1745EST 1930EST ands To Vermilion Oh 1745EST         | 0           | 0                               | Marine Tstm Wind (EG35)  Marine Tstm Wind (EG35) |
| Maumee Bay to<br>Reno Beach<br>LEZ143<br>Reno Beach to<br>The Islands<br>LEZ144<br>The Islands to<br>Vermilion | Maumo<br>04<br>Reno B<br>04<br>The Isl<br>04 | 1930EST ee Bay To Reno Beach Oh 1745EST 1930EST seach To The Islands Oh 1745EST 1930EST ands To Vermilion Oh 1745EST 1930EST | 0           | 0                               | Marine Tstm Wind (EG35)  Marine Tstm Wind (EG35) |





Time Path Path Number of Estimated August 2003

Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

| T . | T7 T3 | -  |    |
|-----|-------|----|----|
| LA  | KE    | ER | ΗБ |

| EARE ERIE                         |        |  |                  |                        |                         |
|-----------------------------------|--------|--|------------------|------------------------|-------------------------|
|                                   | Stron  | g thunderstorms moved northeast across Lak         | e Erie and p     | produced wind gusts i  | n excess of 35 knots.   |
| LEZ167                            | Le W   | illowick To Geneva On The Lake Oh Byd              | 5Nm Offsh        | ore To Intl Border     |                         |
| Willowick                         | 06     | 0913EST  | 0                | 0                      | Waterspout              |
|                                   | A wa   | terspout was observed on Lake Erie approxi         | mately 15 m      | iles north of Fairport | Harbor.                 |
| LEZ146                            | Avon   | Point To Willowick Oh                              |                  |                        |                         |
| Avon Point to                     | 12     | 0750EST<br>0830EST                                 | 0                | 0                      | Marine Tstm Wind (EG35) |
| Willowick                         | T .    |  | T 1 (1 D         |                        |                         |
| LEZ166<br>Avon Point to           | Le Av  | von Pt To Willowick Oh Byd 5Nm Offshor<br>0750EST  | re 10 inu B<br>0 | oraer<br>O             | Marine Tstm Wind (EG35) |
| Willowick                         | 12     | 0830EST  | U                | V                      | Warme 1stin Wind (EG33) |
| LEZ163                            | Le Re  | eno Beach To The Islands Oh Byd 5Nm O              | ffshore To       | Intl Border            |                         |
| Reno Beach to<br>The Islands      | 12     | 0750EST<br>0830EST                                 | 0                | 0                      | Marine Tstm Wind (EG35) |
| LEZ164                            | I o Th |  | shawa Ta In      | tl Dandan              |                         |
| The Islands to                    | 12     | ne Islands To Vermilion Oh Byd 5Nm Offs<br>0750EST | 0 ore 10 m       | u border<br>0          | Marine Tstm Wind (EG35) |
| Vermilion                         |        | 0830EST  | ŭ                | v                      | Warme Islan Wind (2000) |
| LEZ165                            | Le Ve  | ermilion To Avon Pt Oh Byd 5Nm Offshor             | re To Intl B     | order                  |                         |
| Vermilion to<br>Avon Point        | 12     | 0750EST<br>0830EST                                 | 0                | 0                      | Marine Tstm Wind (EG35) |
| LEZ143                            | Dono   | Beach To The Islands Oh                            |                  |                        |                         |
| Reno Beach to                     | 12     | 0750EST  | 0                | 0                      | Marine Tstm Wind (EG35) |
| The Islands                       |        | 0830EST  | v                | v                      | Warme Islan Wind (2000) |
| LEZ144                            | The Is | slands To Vermilion Oh                             |                  |                        |                         |
| The Islands to<br>Vermilion       | 12     | 0750EST<br>0830EST                                 | 0                | 0                      | Marine Tstm Wind (EG35) |
| LEZ145                            | Verm   | ilion To Avon Point Oh                             |                  |                        |                         |
| Vermilion to<br>Avon Point        | 12     | 0750EST<br>0830EST                                 | 0                | 0                      | Marine Tstm Wind (EG35) |
| Avoir Foint                       | Thun   | derstorms slowly moved across Lake Erie ar         | nd produced      | wind gusts in excess   | of 35 knots.            |
| LEZ149                            |        | eaut Oh To Ripley Ny                               | F                | 8                      |                         |
| Ripley Ny                         | 16     | 1243EST  | 0                | 0                      | Marine Tstm Wind (EG35) |
| improj 1.j                        |        | 1400EST  | ŭ                | v                      | manue Islan (Mar (2000) |
| LEZ169                            | Le Co  | onneaut Oh To Ripley Ny Byd 5Nm Offsh              | ore To Intl      | Border                 |                         |
| Conneaut to<br>Ripley Ny          | 16     | 1243EST<br>1400EST                                 | 0                | 0                      | Marine Tstm Wind (EG35) |
| impley 1 ly                       | Stron  | g thunderstorms moved southeast across Lal         | ke Erie and p    | produced wind gusts i  | n excess of 35 knots.   |
|                                   |        |  | •                |                        |                         |
| LEZ146                            | Avon   | Point To Willowick Oh                              |                  |                        |                         |
| Avon Point to                     | 16     | 1545EST  | 0                | 0                      | Marine Tstm Wind (EG35) |
| Willowick                         |        | 1730EST  |                  |                        |                         |
| LEZ149                            |        | eaut Oh To Ripley Ny                               | 0                | 0                      | M                       |
| Ripley Ny                         | 16     | 1545EST<br>1730EST                                 | 0                | 0                      | Marine Tstm Wind (EG35) |
| LEZ148                            | Genev  | va On The Lake Oh To Conneaut Oh                   |                  |                        |                         |
| Geneva-On-The-Lake to<br>Conneaut | 16     | 1545EST<br>1730EST                                 | 0                | 0                      | Marine Tstm Wind (EG35) |
| LEZ166                            | Le Av  | von Pt To Willowick Oh Byd 5Nm Offshoi             | re To Intl B     | order                  |                         |
| Avon Point to                     | 16     | 1545EST  | 0                | 0                      | Marine Tstm Wind (EG35) |
| Willowick                         |        | 1730EST  |                  |                        |                         |
| LEZ169                            |        | onneaut Oh To Ripley Ny Byd 5Nm Offsho             |                  |                        | Movino T-t Wind (ECCS)  |
| Conneaut to<br>Ripley Ny          | 16     | 1545EST<br>1730EST                                 | 0                | 0                      | Marine Tstm Wind (EG35) |
| LEZ162                            | Le De  | etroit R Lt To Reno Beach Oh Byd 5Nm O             | Offshore To      | Intl Border            |                         |
| Maumee Bay to                     | 16     | 1545EST  | 0                | 0                      | Marine Tstm Wind (EG35) |
| Reno Beach                        |        | 1730EST  |                  |                        |                         |





Time Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

#### LAKE ERIE

| LEZ168                             |          | neva On The Lake To Conneaut Oh Byd 5Nn       |             |                                |                         |
|------------------------------------|----------|---|-------------|--------------------------------|-------------------------|
| Geneva-On-The-Lake to<br>Conneaut  | 16       | 1545EST<br>1730EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ163                             | Le Ren   | no Beach To The Islands Oh Byd 5Nm Offsho     | ore To Int  | Border                         |                         |
| Reno Beach to<br>The Islands       | 16       | 1545EST<br>1730EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ164                             | Le The   | e Islands To Vermilion Oh Byd 5Nm Offshor     | e To Intl I | Border                         |                         |
| The Islands to<br>Vermilion        | 16       | 1545EST<br>1730EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ165                             | Le Ver   | milion To Avon Pt Oh Byd 5Nm Offshore To      | o Intl Boro | ler                            |                         |
| Vermilion to<br>Avon Point         | 16       | 1545EST<br>1730EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ167                             | Le Wil   | lowick To Geneva On The Lake Oh Byd 5Ni       | n Offshor   | e To Intl Border               |                         |
| Willowick to<br>Geneva-On-The-Lake | 16       | 1545EST<br>1730EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ142                             | Maum     | ee Bay To Reno Beach Oh                       |             |                                |                         |
| Maumee Bay to<br>Reno Beach        | 16       | 1545EST<br>1730EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ143                             | Reno E   | Beach To The Islands Oh                       |             |                                |                         |
| Reno Beach to<br>The Islands       | 16       | 1545EST<br>1730EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ144                             | The Isl  | lands To Vermilion Oh                         |             |                                |                         |
| The Islands to<br>Vermilion        | 16       | 1545EST<br>1730EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ145                             |          | lion To Avon Point Oh                         |             |                                |                         |
| Vermilion to<br>Avon Point         | 16       | 1545EST<br>1730EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ147                             |          | vick To Geneva On The Lake Oh                 |             |                                |                         |
| Willowick to<br>Geneva-On-The-Lake | 16       | 1545EST<br>1730EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
|                                    | A line   | of strong thunderstorms moved southeast acros | s Lake Erio | e and produced wind gusts in e | xcess of 35 knots       |
| LEZ162                             | Le Det   | roit R Lt To Reno Beach Oh Byd 5Nm Offsh      | ore To Int  | tl Border                      |                         |
| Maumee Bay to<br>Reno Beach        | 25<br>26 | 2300EST<br>0100EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ163                             | Le Ren   | no Beach To The Islands Oh Byd 5Nm Offsho     | ore To Int  | l Border                       |                         |
| Reno Beach to<br>The Islands       | 25<br>26 | 2300EST<br>0100EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ164                             | Le The   | e Islands To Vermilion Oh Byd 5Nm Offshor     | e To Intl I | Border                         |                         |
| The Islands to<br>Vermilion        | 25<br>26 | 2300EST<br>0100EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ142                             | Maum     | ee Bay To Reno Beach Oh                       |             |                                |                         |
| Maumee Bay to<br>Reno Beach        | 25<br>26 | 2300EST<br>0100EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ143                             | Reno E   | Beach To The Islands Oh                       |             |                                |                         |
| Reno Beach to<br>The Islands       | 25<br>26 | 2300EST<br>0100EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| LEZ144                             |          | ands To Vermilion Oh                          |             |                                |                         |
| The Islands                        | 25<br>26 | 2300EST<br>0100EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
|                                    |          | thunderstorms moved east across Lake Erie and | d produced  | wind gusts in excess of 35 kne | ots.                    |
| LEZ146                             | Avon I   | Point To Willowick Oh                         |             |                                |                         |
| Avon Point to<br>Willowick         | 26       | 0115EST<br>0300EST                            | 0           | 0                              | Marine Tstm Wind (EG35) |
| ** HIUWICK                         |          | 05001251                                      |             |                                |                         |



Number of

Estimated

Path



August 2003 Time Local/ Path Length Persons Width Damage LAKE ERIE **LEZ148** Geneva On The Lake Oh To Conneaut Oh 0115EST 0300EST Geneva-On-The-Lake to 0 0 Marine Tstm Wind (EG35) Conneaut Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border LEZ166 Avon Point to Willowick 0115EST Marine Tstm Wind (EG35) 0300EST Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border **LEZ168** Marine Tstm Wind (EG35) Geneva-On-The-Lake to Conneaut **LEZ164** Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border The Islands to Marine Tstm Wind (EG35) 0300EST Vermilion Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border **LEZ165** Vermilion to Avon Point Marine Tstm Wind (EG35) Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border LEZ167 0115EST 0300EST Willowick to Marine Tstm Wind (EG35) Geneva-On-The-Lake The Islands To Vermilion Oh The Islands to Vermilion 0115EST 0300EST 0 0 Marine Tstm Wind (EG35) LEZ145 **Vermilion To Avon Point Oh** Vermilion to 0115EST 0300EST Marine Tstm Wind (EG35) Avon Point Willowick To Geneva On The Lake Oh Willowick to Geneva-On-The-Lake 0115EST 0300EST 26 0 Marine Tstm Wind (EG35) Strong thunderstorms moved east across Lake Erie and produced wind gusts in excess of 35 knots. LEZ146 Avon Point To Willowick Oh Avon Point to Willowick 0345EST 0500EST 0 0 Marine Tstm Wind (EG35) 26 LEZ149 Conneaut Oh To Ripley Ny Marine Tstm Wind (EG35) Ripley Ny Geneva On The Lake Oh To Conneaut Oh **LEZ148** Geneva-On-The-Lake to Conneaut 0345EST 0500EST Marine Tstm Wind (EG35) Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border LEZ166 0345EST 0500EST Avon Point to Willowick Marine Tstm Wind (EG35) 26 LEZ169 Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border Conneaut to 26 0345EST 0500EST Marine Tstm Wind (EG35) Ripley Ny Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border 0345EST 0500EST Geneva-On-The-Lake to Marine Tstm Wind (EG35) Conneaut LEZ167 Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border Willowick to Geneva-On-The-Lake 0345EST 0500EST Marine Tstm Wind (EG35) LEZ147 Willowick To Geneva On The Lake Oh Willowick to 0345EST Marine Tstm Wind (EG35) 0 26 Geneva-On-The-Lake





|  | Tim<br>Loc    | al/ Length  | Path<br>Width | Number<br>Person   | IS                         | Estimated<br>Damage | August 200                   |
|--|---------------|---|---------------|--------------------|----------------------------|---------------------|------------------------------|
| Location                                     | Date Sta      | ndard (Miles)   | (Yards)       | Killed             | Injured Prop               | erty Crops          | Character of Storm           |
| LAKE ERIE                                    |               |   |               |                    |                            |                     |                              |
| LEZ146<br>Avon Point to<br>Willowick         | 26 090        | Fo Willowick Oh<br>0EST<br>5EST                         |               | 0                  | 0                          |                     | Marine Tstm Wind (EG35)      |
| LEZ149<br>Ripley Ny                          | 26 090        | h To Ripley Ny<br>0EST<br>5EST                          |               | 0                  | 0                          |                     | Marine Tstm Wind (EG35)      |
| LEZ148<br>Geneva-On-The-Lake to<br>Conneaut  | 26 090        | The Lake Oh To Conne<br>0EST<br>5EST                    | aut Oh        | 0                  | 0                          |                     | Marine Tstm Wind (EG35)      |
| LEZ166<br>Avon Point to<br>Willowick         | 26 090        | Fo Willowick Oh Byd 5<br>0EST<br>5EST                   | Nm Offshor    | e To Intl Bor<br>0 | der<br>0                   |                     | Marine Tstm Wind (EG35)      |
| LEZ169<br>Conneaut to<br>Ripley Ny           | 26 090        | t Oh To Ripley Ny Byd<br>0EST<br>5EST                   | 5Nm Offsho    | ore To Intl Bo     | order<br>0                 |                     | Marine Tstm Wind (EG35)      |
| LEZ162<br>Maumee Bay to<br>Reno Beach        | 26 090        | Lt To Reno Beach Oh<br>0EST<br>5EST                     | Byd 5Nm O     | ffshore To In<br>0 | tl Border<br>0             |                     | Marine Tstm Wind (EG35)      |
| LEZ168<br>Geneva-On-The-Lake to<br>Conneaut  | 26 090        | On The Lake To Connea<br>0EST<br>5EST                   | aut Oh Byd S  | 5Nm Offshor<br>0   | e To Intl Bor<br>0         | der                 | Marine Tstm Wind (EG35)      |
| LEZ163<br>Reno Beach to<br>The Islands       | 26 090        | ich To The Islands Oh I<br>0EST<br>5EST                 | Byd 5Nm Of    | fshore To Int<br>0 | tl Border<br>0             |                     | Marine Tstm Wind (EG35)      |
| LEZ164<br>The Islands to<br>Vermilion        | 26 090        | ds To Vermilion Oh By<br>0EST<br>5EST                   | d 5Nm Offs    | hore To Intl       | Border<br>0                |                     | Marine Tstm Wind (EG35)      |
| LEZ165<br>Vermilion to<br>Avon Point         | 26 090        | n To Avon Pt Oh Byd 5.<br>0EST<br>5EST                  | Nm Offshor    | e To Intl Bor<br>0 | der<br>0                   |                     | Marine Tstm Wind (EG35)      |
| LEZ167<br>Willowick to<br>Geneva-On-The-Lake | 26 090        | k To Geneva On The La<br>0EST<br>5EST                   | ake Oh Byd    | 5Nm Offshor<br>0   | re To Intl Boi<br>0        | der                 | Marine Tstm Wind (EG35)      |
| LEZ142<br>Maumee Bay to<br>Reno Beach        | 26 090        | y To Reno Beach Oh<br>0EST<br>5EST                      |               | 0                  | 0                          |                     | Marine Tstm Wind (EG35)      |
| LEZ143<br>Reno Beach to<br>The Islands       | 26 090        | To The Islands Oh<br>0EST<br>5EST                       |               | 0                  | 0                          |                     | Marine Tstm Wind (EG35)      |
| LEZ144<br>The Islands to<br>Vermilion        | 26 090        | To Vermilion Oh<br>0EST<br>5EST                         |               | 0                  | 0                          |                     | Marine Tstm Wind (EG35)      |
| LEZ145<br>Vermilion to<br>Avon Point         | 26 090        | o Avon Point Oh<br>0EST<br>5EST                         |               | 0                  | 0                          |                     | Marine Tstm Wind (EG35)      |
| LEZ147<br>Willowick to<br>Geneva-On-The-Lake | 26 090<br>101 | o Geneva On The Lake 0EST 5EST erstorms moved east acro |               | 0 and produce      | <b>0</b><br>d wind gusts i | n excess of 35 kn   | Marine Tstm Wind (EG35) ots. |
|  | -             |   |               | -                  | -                          |                     |                              |
| LEZ149<br>Ripley Ny                          | 26 223        | h To Ripley Ny<br>0EST<br>0EST                          |               | 0                  | 0                          |                     | Marine Tstm Wind (EG35)      |
| LEZ148<br>Geneva-On-The-Lake to<br>Conneaut  | 26 223        | Гhe Lake Oh To Conne<br>0EST<br>0EST                    | aut Oh        | 0                  | 0                          |                     | Marine Tstm Wind (EG35)      |



Conneaut to

Ripley Ny

1415EST

### **National Weather Service** Storm Data and Unusual Weather Phenomena



August 2003 Time Local/ Path Length Path Number of Estimated Persons Damage Width LAKE ERIE Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border LEZ169 Conneaut to Marine Tstm Wind (EG35) **Ripley Ny** LEZ168 Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border Geneva-On-The-Lake to 2230EST Marine Tstm Wind (EG35) Conneaut Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border **LEZ167** Willowick to Marine Tstm Wind (EG35) Geneva-On-The-Lake Strong thunderstorms moved southeast across Lake Erie and produced wind gusts in excess of 35 knots. **LEZ146 Avon Point To Willowick Oh** Avon Point to Willowick Marine Tstm Wind (EG35) 0 LEZ145 Vermilion To Avon Point Oh Vermilion to 2315EST 0 0 Marine Tstm Wind (EG35) **Avon Point** Strong thunderstorms moved east across Lake Erie and produced wind gusts in excess of 35 knots. **LEZ162** Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border Maumee Bay to Reno Beach 27 Marine Tstm Wind (EG35) LEZ163 Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border Reno Beach to Marine Tstm Wind (EG35) The Islands LEZ164 Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border The Islands to 27 Marine Tstm Wind (EG35) Vermilion 0630EST LEZ165 Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border 0445EST 0630EST Vermilion to Marine Tstm Wind (EG35) **Avon Point LEZ142** Maumee Bay To Reno Beach Oh 0445EST 0630EST 0 Maumee Bay to 27 0 Marine Tstm Wind (EG35) Reno Beach **LEZ143** Reno Beach To The Islands Oh 0445EST 0630EST Reno Beach to The Islands O Marine Tstm Wind (EG35) 0 **LEZ144** The Islands To Vermilion Oh The Islands to 0445EST 0 0 Marine Tstm Wind (EG35) 27 Vermilion 0630EST **Vermilion To Avon Point Oh** Vermilion to Marine Tstm Wind (EG35) **Avon Point** Strong thunderstorms moved east across Lake Erie and produced wind gusts in excess of 35 knots. LEZ149 Conneaut Oh To Ripley Ny 1230EST 0 Marine Tstm Wind (EG35) 0 Ripley Ny LEZ148 Geneva On The Lake Oh To Conneaut Oh Geneva-On-The-Lake Marine Tstm Wind (EG35) **LEZ169** Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border 1230EST Marine Tstm Wind (EG35)





August 2003 Time Local/ Path Length Path Number of Estimated Damage Width Persons LAKE ERIE LEZ168 Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border Geneva-On-The-Lake to Marine Tstm Wind (EG35) Conneaut Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border LEZ167 Willowick to Marine Tstm Wind (EG35) Geneva-On-The-Lake **LEZ147** Willowick To Geneva On The Lake Oh Marine Tstm Wind (EG35) Willowick to 0 Geneva-On-The-Lake Strong thunderstorms moved northeast across Lake Erie and produced wind gusts in excess of 35 knots. OHIO, North **Wood County** 1835EST **Bowling Green** Hail(0.75) Penny size hail was observed five miles northwest of Bowling Green. **Wood County** 1835EST O **Bowling Green** 01 50K Thunderstorm Wind (EG50) Thunderstorm winds estimated to be at least 58 mph blew down 15 to 20 tents at the Wood County Fairgrounds. There were no **Richland County** 1455EST Plymouth 02 0 Hail(0.75) Penny size hail was observed. **Ashland County** Mifflin 1530EST Thunderstorm Wind (EG50) 02 0 Thunderstorm winds downed several trees. **Richland County** Mansfield to Ontario 1540EST 1730EST 500K 02 Flash Flood Thunderstorms dumped one to three inches of rain on portions of Richland County in a short period of time. Three inches of rain was measured by spotters in Mansfield in less than two hours. Widespread urban and lowland flooding occurred across the county with the Mansfield and Ontario areas most severely affected. Water eight feet deep was reported in an underpass on the east side of Mansfield with up to three feet of water on many other area roads. Several vehicles were stranded in the flood waters. In Mansfield, a basement wall collapsed causing extensive damage to a home. Several hundred other homes in the county experienced basement flooding. **Ottawa County** Marblehead 1625EST Hail(0.75) Penny size hail was observed. **OHZ029** Richland 0 Flood Urban and lowland flooding continued in Richland County through the evening hours. Heavy rains late in the afternoon caused many small streams and creeks to leave their banks flooding many areas. Water as much as three feet deep was observed on county roads until well after dark. Many road closures occurred. Several hundred homes experienced basement flooding. **Lucas County** 

0

Hail(0.75)

02

Oregon

1755EST

Penny size hail was observed.





August 2003 Time Local/ Path Length Path Number of Estimated Width Persons Damage OHIO, North **Lorain County Kipton** 03 1345EST 0.1 50 0 0 15K 50K Tornado (F0) A small tornado touched down four miles northeast of Kipton in Henrietta Township near the intersection of Garfield and Baumhart Roads. The tornado was on the ground for approximately 200 yards and had a damage path up to 50 yards in width. One home sustained some minor damage. Several trees and a power pole were downed. Some crop damage also occurred in a nearby field. **Lorain County** Amherst 03 1400EST 10K 0.1 Tornado (F0) The parent thunderstorm that spawned the tornado in Henrietta Township produced a second tornado north of Amherst. This touchdown occurred near State Route 2 between State Route 58 and Terra Lane. The tornado was on the ground for around 300 yards and had a damage path up to 50 yards in width. No structural damage occurred, but several trees were toppled along the damage path. **Wood County** Weston 03 **2231EST** 0 Hail(0.75) Penny size hail was observed. **Lucas County** Maumee 03 12K Thunderstorm Wind (EG50) Thunderstorm winds downed several trees and large limbs. **Wood County** Custar 1240EST **Funnel Cloud** A funnel cloud was observed west of Custar near the Henry County line. The funnel came within 20 feet of touching the ground. No damage occurred. **Trumbull County** Hubbard 1433EST 20K Hail(1.75) Golf ball size hail was observed. **OHZ032** Stark 04 50K Flood Thunderstorms dumped locally heavy rains on portions of Stark County. Several roads were flooded near Magnolia. Minor basement flooding also occurred. **Wood County** 04 1535EST 0 0 Hail(0.88) **Portage** Penny to nickel size hail was observed. **Lake County** Madison 1610EST 10K Thunderstorm Wind (EG50) Thunderstorm winds downed a few trees. **Wood County** Countywide 04 1705EST 1930EST 750K Flash Flood Thunderstorms dumped heavy rains on portions of Wood County. 2.38 inches of rain was measured in Bowling Green with just over 3 inches in Cygnet. Urban and lowland flooding occurred throughout the county with the east side of Bowling Green seeing the worst flooding. Extensive flooding occurred on the Bowling Green State University campus with water up to three feet deep at some locations. The Quail Hollow subdivision also experienced a lot of flooding with water over 18 inches deep outside of many homes.

experienced basement flooding.

Many streets and roads had to be closed and several vehicles became stranded in the flood waters. Dozens of homes in the county





| Location                          | Time<br>Local/<br>Date Standard                    | Path Path<br>Length Width<br>(Miles) (Yards) | Numbe<br>Perso<br>Killed      |                         | Estimated<br>Damage<br>Property Crops | August 2003 Character of Storm  |
|-----------------------------------|--|--|-------------------------------|-------------------------|---------------------------------------|---|
| OHIO, North                       |  |  |                               |                         |                                       |   |
| Seneca County<br>Bascom           | <b>04 1724EST</b><br>Penny size hail was obse      | erved.                                       | 0                             | 0                       |                                       | Hail(0.75)  |
| Ottawa County<br>Oak Harbor       | <b>04 1740EST</b> Penny size hail was obse         | erved north of Oak Harb                      | oor.                          | 0                       |                                       | Hail(0.75)  |
| Seneca County<br>Amsden           | <b>04 1750EST</b> Thunderstorm winds do            | wned one large tree sout                     | 0<br>th of Amsden.            | 0                       |                                       | Thunderstorm Wind (EG50)  |
| Cuyahoga County<br>Moreland Hills | <b>04 1808EST</b><br>Thunderstorm winds do         | wned one tree and a larg                     | <b>0</b> ge limb.             | 0                       | 3K                                    | Thunderstorm Wind (EG50)  |
| Seneca County<br>Bloomville       | <b>04 1815EST</b><br>Penny size hail was obse      | erved north of Bloomvil                      | <b>0</b> le.                  | 0                       |                                       | Hail(0.75)  |
| Stark County<br>Hartville         | <b>04 1830EST</b><br>Penny size hail was obse      | erved.                                       | 0                             | 0                       |                                       | Hail(0.75)  |
| Stark County<br>Uniontown         | 04 1830EST<br>Thunderstorm winds do                | wned one tree and one la                     | <b>0</b><br>arge limb.        | 0                       | 3K                                    | Thunderstorm Wind (EG50)  |
| Summit County<br>Countywide       | 04 1830EST<br>Thunderstorm winds do                | wned several large tree l                    | 0 imbs.                       | 0                       | 5K                                    | Thunderstorm Wind (EG50)  |
| Portage County<br>Suffield        | <b>04 1840EST</b><br>Penny size hail was obse      | erved.                                       | 0                             | 0                       |                                       | Hail(0.75)  |
| OHZ018                            | Seneca 04 1800EST 2100EST Thunderstorms dumped     | l locally heavy rains or                     | 0 portions of S               | <b>0</b><br>Seneca Co   | 100K<br>ounty. Several ro             | Flood  pads were flooded near Bascom. Minor                                       |
| OHZ017                            | Hancock 04 1800EST 2000EST Thunderstorms dumped    |  | 0<br>portions of Ha           | 0<br>ancock Co          | 100K unty. Several roa                | Flood ds were flooded near Van Buren. Minor                                       |
| Ashland County North Portion      | basement flooding also                             |  | 0                             | 0                       | 100K                                  | Flash Flood   |
| North Portion                     | 1745EST<br>Thunderstorms dumped                    | vere closed near Polk and                    | s of Ashland<br>d Nankin. A c | County.                 | Lowland flooding                      | occurred across the northern half of the g Road (County Road 1302) to the east of |
| OHZ003                            | Lucas 05 1530EST 1800EST Heavy rains fell on the v | western portion of Lucas                     | <b>0</b> County. Low          | <b>0</b><br>vland and u | <b>50K</b> urban flooding occ         | Flood surred in and around Swanton.   |
| Summit County<br>Greensburg       | 05 1600EST   |  | 0                             | 0                       | 5K                                    | Thunderstorm Wind (EG50)  |
|                                   | Thunderstorm winds do                              | wned a few trees in Gree                     | en Township.                  |                         |                                       |   |





August 2003 Time Local Path Length Path Number of Estimated Width Persons Damage OHIO, North **Stark County** Uniontown 05 1700EST 0 0 Hail(0.75) Penny size hail was observed. **Summit County** Lakemore 05 1700EST Thunderstorm Wind (EG50) Thunderstorm winds downed one tree south of Lakemore in Springfield Township. **OHZ020** Medina 0 1540EST 2000EST 50K Flood Heavy rain fell on portions of Medina County causing several small streams and creeks to leave their banks. Several roads were flooded and had to be briefly closed. **OHZ032** Stark 100K 05 Flood 2030EST Heavy rains fell on Stark County. Lowland flooding occurred across the county and several small streams and creeks left their banks. Several roads had to be briefly closed. **OHZ023** Trumbull 1220EST 100K Flood 06 Thunderstorms dumped locally heavy rains on Trumbull County causing a couple small streams to leave their banks and flood lowland areas. There were several road closures in and around Leavittsburg. **OHZ020** Medina 08 50K Flood 1600EST Thunderstorms producing more than an inch of rain per hour moved across Medina County. Urban and lowland flooding occurred throughout Medina County. Several roads had to be temporarily closed. **Mahoning County** Countywide 09 1845EST 2100EST 450K Flash Flood Thunderstorms dumped heavy rains on Mahoning County causing urban and lowland flooding in the Youngstown and Boardman areas. Spotters measured 3.6 inches of rain in Youngstown. Many streets were flooded and dozens of homes experienced basement flooding. A few vehicles became stranded in the flood waters which were up to four feet deep at some locations. Several basement apartments had to be evacuated because of flooding. **Ashland County** Jeromesville 16 1445EST 0 5K Thunderstorm Wind (EG50) Thunderstorm winds downed a few large tree limbs. **Lorain County** Penfield 16 1645EST 0 Hail(0.75) Penny size hail was observed. Medina County Chatham 16 1700EST 0 0 Hail(0.75) Penny size hail was observed. **Wayne County** Orrville 1740EST Hail(1.00) Ouarter size hail was observed. **Wayne County** Shreve 16 1840EST 7K Thunderstorm Wind (EG50) Thunderstorm winds downed a few trees and large limbs.



Number of

Estimated

Path



August 2003 Time Local/ Path Length Width Persons Damage OHIO, North **Ashtabula County** Ashtabula 16 1900EST 0 0 Hail(0.75) Penny size hail was observed on the west side of Ashtabula. **Holmes County** Thunderstorm Wind (EG50) Millersburg 16 1900EST 5K Thunderstorm winds toppled two large trees three miles northwest of Millersburg. Ashtabula County 0 Ashtabula 16 1905EST 0 Hail(1.00) Penny to quarter size hail was observed. **Ottawa County** 1235EST Elmore 0 Hail(0.75) Penny size hail was observed near Elmore. **Wood County** Sugar Ridge 21 2330EST 0 0 15K Thunderstorm Wind (EG50) Thunderstorm winds downed several large trees. **Wood County** 21 2335EST 0 0 25K Thunderstorm Wind (EG50) Luckey Thunderstorm winds downed several large trees. **Wood County Bowling Green** 2340EST 0 0 Hail(0.75) Penny size hail was observed. **Wood County Bowling Green** 21 2340EST 0 0 5K Thunderstorm Wind (EG50) Thunderstorm winds downed several large tree limbs. Sandusky County Bellevue 21 2350EST 0 100K Thunderstorm Wind (EG50) Thunderstorm winds downed many trees in Bellvue. Dozens of other trees were downed across the county line in Huron County. Several buildings and vehicles sustained minor damage. **Huron County** Strongs Ridge 0 800K Thunderstorm Wind (EG61) A thunderstorm downburst with winds estimated at 70 mph caused considerable damage. The section of Bellevue in Huron County was the hardest hit part of the city. Around 150 trees were downed on the northeast side of Bellvue with damage reported on every street. Fifty homes and many cars were damaged in this area. Over two dozen streets were blocked by fallen trees and limbs. A construction trailer was overturned and destroyed. The winds were strong enough to move several parked railroad cars over 200 feet. **Lorain County** Oberlin 22 0047EST 0 25K Thunderstorm Wind (EG50) Thunderstorm winds downed many trees in Oberlin. **Portage County** Ravenna 26 0230EST 0 5K Thunderstorm Wind (EG50) Thunderstorm winds downed trees north and west of Ravenna. Ashtabula County Ashtabula to Richmond Center 26 3K Thunderstorm Wind (EG50) Thunderstorm winds downed a large tree southeast of Ashtabula and several large limbs near Richmond Center.





| Location                                 | Date                | Time<br>Local/<br>Standard                        | Path<br>Length<br>(Miles) | Path<br>Width<br>(Yards) | Numb<br>Pers<br>Killed    |                         | Estimated<br>Damage<br>Property Crops | August 2003<br>Character of Storm                                 |
|--|---------------------|---|---------------------------|--------------------------|---------------------------|-------------------------|---------------------------------------|---|
| OHIO, North                              |                     |   |                           |                          |                           |                         |                                       |   |
| Trumbull County<br>Southington           | <b>26</b><br>Thund  | <b>0245EST</b><br>lerstorm winds do               | owned a few ti            | rees.                    | 0                         | 0                       | 10K                                   | Thunderstorm Wind (EG50)  |
| Trumbull County<br>Vienna to<br>Burghill | <b>26</b> Thund     | 0245EST<br>0255EST<br>lerstorm winds do           | owned trees no            | ear Vienna ar            | <b>0</b><br>nd Burghill.  | 0                       | 3K                                    | Thunderstorm Wind (EG50)  |
| Mahoning County<br>Boardman              | <b>26</b><br>Thund  | 1109EST<br>derstorm winds do                      | owned over 20             | trees in Boa             | <b>0</b><br>ardman.       | 0                       | 50K                                   | Thunderstorm Wind (EG50)  |
| Lucas County<br>Waterville               | <b>26</b><br>Thund  | 1700EST<br>lerstorm winds do                      | owned several             | large tree lir           | 0<br>mbs in Water         | <b>0</b><br>rville.     | 4K                                    | Thunderstorm Wind (EG50)  |
| Hancock County<br>Findlay Arpt           | <b>26</b><br>A 59 1 | 1705EST nph thunderstorn                          | n wind gust wa            | as measured              | <b>0</b><br>at the Findla | <b>0</b><br>ay Airport  |                                       | Thunderstorm Wind (MG51)  |
| Wood County<br>Rudolph                   | <b>26</b><br>Thund  | 1710EST<br>lerstorm winds do                      | owned one larg            | ge tree and o            | 0<br>ne power po          | <b>0</b> le.            | 8K                                    | Thunderstorm Wind (EG50)  |
| Seneca County<br>Fostoria                | <b>26</b><br>Thund  | 1719EST<br>lerstorm winds do                      | owned two lar             | ge trees.                | 0                         | 0                       | 3K                                    | Thunderstorm Wind (EG50)  |
| Sandusky County<br>Fremont               | <b>26</b><br>Thund  | 1740EST<br>lerstorm winds do                      | owned a few la            | arge tree limb           | obs.                      | 0                       | 6K                                    | Thunderstorm Wind (EG50)  |
| Wyandot County<br>Upper Sandusky         | <b>26</b><br>Thund  | 1740EST<br>lerstorm winds do                      | owned a few tr            | rees.                    | 0                         | 0                       | 10K                                   | Thunderstorm Wind (EG50)  |
| Hancock County<br>Findlay                | <b>26</b><br>Thund  | 1757EST<br>lerstorm winds do                      | owned many la             | arge tree liml           | <b>0</b><br>bs in Findlay | 0                       | 5K                                    | Thunderstorm Wind (EG50)  |
| Crawford County<br>Bucyrus to<br>Galion  | <b>26</b><br>Thund  | 1800EST<br>1815EST<br>lerstorm winds do           | owned large tr            | ee limbs nea             | <b>0</b><br>r Bucyrus an  | <b>0</b><br>nd in Galio | <b>2K</b>                             | Thunderstorm Wind (EG50)  |
| Marion County<br>Countywide              | <b>26</b><br>Thund  | 1810EST<br>lerstorm winds do                      | owned trees ac            | eross the cou            | 0 nty.                    | 0                       | 25K                                   | Thunderstorm Wind (EG50)  |
| Marion County<br>Marion                  | <b>26</b><br>Penny  | 1820EST size hail was obs                         | served.                   |                          | 0                         | 0                       |                                       | Hail(0.75)  |
| Richland County<br>Mansfield             | <b>26</b><br>Thund  | 1825EST<br>derstorm winds do                      | owned a few tr            | rees.                    | 0                         | 0                       | 10K                                   | Thunderstorm Wind (EG50)  |
| Marion County<br>Countywide              |                     | 1840EST<br>lerstorm winds do<br>lamaged by faller |                           |                          | 0<br>ne county. T         | <b>0</b><br>The worst o | 100K<br>damage occurred in            | Thunderstorm Wind (EG50) the western half of the county. Two cars |





August 2003 Time Local Path Length Path Number of Estimated Width Persons Damage OHIO, North **Morrow County** 25K Mt Gilead 26 0 0 Thunderstorm Wind (EG50) Thunderstorm winds downed many trees near Mount Gilead. Several tents were blown down at the county fairgrounds. A concession trailer at the fair was crushed by a tree. **Morrow County** 26 1846EST 5K Thunderstorm Wind (MG57) Marengo A 66 mph thunderstorm wind gust was measured near Marengo. At least two large trees were downed. **Ashland County** Countywide 26 1900EST 10K Thunderstorm Wind (EG50) Thunderstorm winds downed several trees across the county. **Wayne County** 1900EST Thunderstorm Wind (EG50) Congress to Wooster 2K 26 1915EST Thunderstorm winds downed large tree limbs in Congress and Wooster. **Knox County** Thunderstorm Wind (EG61) 1905EST 1930EST 300K Countywide 26 Thunderstorm downburst winds estimated to be around 70 mph caused widespread damage. A 60 mph gust was measured by spotters in Mount Vernon at 8:10 p.m. Well over 100 trees were downed in the county with 30 in Mount Vernon alone. Homes were damaged in both Mount Vernon and Centerburg. Widespread power outages occurred and many roads and highways were blocked by fallen trees. **Holmes County** Killbuck to Stillwell 26 1915EST 0 3K Thunderstorm Wind (EG50) Thunderstorm winds downed trees in Killbuck and Stillwell. **Knox County** Countywide 26 1916EST 0 0 10K Thunderstorm Wind (EG50) Thunderstorm winds downed a few trees across the county. **Stark County Brewster** 26 1930EST 0 0 2K Thunderstorm Wind (EG50) Thunderstorm winds downed a few large tree limbs. **Lorain County Avon Lake** 2240EST Hail(0.75) Penny size hail was observed. **Cuyahoga County** Brecksville 0005EST 2KThunderstorm Wind (EG50) Thunderstorm winds downed a couple of large tree limbs. Geauga County Welshfield 0005EST 4K Thunderstorm Wind (EG50) Thunderstorm winds downed two trees near Welshfield. **Summit County** Cuyahoga Falls 27 0040EST 3K Thunderstorm Wind (EG50) Thunderstorm winds downed one tree and one large limb. **Summit County** 0045EST 10K Thunderstorm Wind (EG50) **Tallmadge** 27 0 Thunderstorm winds blew a large tree down on top of a house.





|                            |                     | Time<br>Local/               | Path<br>Length | Path<br>Width   | Numbe<br>Perso      | r of            | Estimated<br>Damage               | August 2003   |
|----------------------------|---------------------|------------------------------|----------------|-----------------|---------------------|-----------------|-----------------------------------|---|
| Location                   | Date                | Standard                     | (Miles)        | (Yards)         | Killed              | Injured         | Property Crops                    | Character of Storm  |
| OHIO, North                |                     |                              |                |                 |                     |                 |                                   |   |
| Portage County<br>Kent     | <b>27</b><br>Thunde | 0110EST<br>erstorm winds do  | wned several   | trees.          | 0                   | 0               | 10K                               | Thunderstorm Wind (EG50)  |
| Portage County             |                     |                              |                |                 |                     |                 |                                   |   |
| Brimfield                  | 27<br>Trained       | 0127EST<br>d spotters measur | red a 58 mph t | hunderstorm     | wind gust.          | 0<br>At least o | <b>2K</b> one large tree was down | Thunderstorm Wind (MG50) wned.  |
| OHZ021                     | Summi               | t                            |                |                 |                     |                 |                                   |   |
|                            | 27                  | 0130EST<br>0530EST           |                |                 | 0                   | 0               | 150K                              | Flood   |
|                            | rain du             |                              | e period endin | g at 2:30 a.m   | n. Several sı       | mall strea      | ams and creeks left th            | Cuyahoga Falls measured 2.2 inches of<br>heir banks resulting in areas of lowland |
| Portage County             |                     |                              |                |                 |                     |                 |                                   |   |
| Atwater                    | 27<br>Thunde        | 0130EST<br>erstorm winds do  | wned several   | trees east of   | 0<br>Atwater.       | 0               | 10K                               | Thunderstorm Wind (EG50)  |
| Crawford County            |                     |                              |                |                 |                     |                 |                                   |   |
| Galion                     | 27<br>Thunde        | 0150EST<br>erstorm winds do  | wned a few la  | arge tree limb  | <b>0</b>            | 0               | 2K                                | Thunderstorm Wind (EG50)  |
| Stark County               |                     |                              |                |                 |                     |                 |                                   |   |
| Robertsville               | 27<br>Thunde        | 0205EST<br>erstorm winds do  | wned one tree  | and a few la    | 0<br>arge tree limb | 0<br>os.        | 5K                                | Thunderstorm Wind (EG50)  |
| <b>Ashland County</b>      |                     |                              |                |                 |                     |                 |                                   |   |
| Ashland                    | 27<br>Thunde        | 0335EST<br>erstorm winds do  | wned several   | trees.          | 0                   | 0               | 10K                               | Thunderstorm Wind (EG50)  |
| Wayne County               |                     |                              |                |                 |                     |                 |                                   |   |
| Wooster                    | 27<br>Thunde        | 0350EST<br>erstorm winds do  | wned a few la  | arge tree limb  | <b>0</b>            | 0               | 2K                                | Thunderstorm Wind (EG50)  |
| <b>Knox County</b>         |                     |                              |                |                 |                     |                 |                                   |   |
| Fredericktown              | 27<br>Thunde        | 0405EST<br>erstorm winds do  | wned a few tr  | ees and large   | 0<br>limbs north    | 0<br>of Frede   | <b>8K</b> ricktown.               | Thunderstorm Wind (EG50)  |
| <b>Holmes County</b>       |                     |                              |                |                 |                     |                 |                                   |   |
| Millersburg                | 27<br>Thunde        | 0445EST<br>erstorm winds do  | wned a few la  | arge tree limb  | <b>0</b>            | 0               | 2K                                | Thunderstorm Wind (EG50)  |
| Stark County<br>Waynesburg | 27                  | 0740EST                      |                |                 | 0                   | 0               |                                   | Hail(0.75)  |
| Waynesburg                 |                     | size hail was obs            | erved.         |                 | v                   | v               |                                   | 11411(0.75)   |
| Medina County              |                     |                              |                |                 |                     |                 |                                   |   |
| Remson Corners             | 27<br>Thunde        | 1235EST<br>erstorm winds do  | wned a couple  | e of large tree | 0<br>e limbs.       | 0               | 2K                                | Thunderstorm Wind (EG50)  |
| <b>Morrow County</b>       |                     |                              |                |                 |                     |                 |                                   |   |
| Sparta                     | 27<br>Thunde        | 1350EST<br>erstorm winds do  | wned one tree  | and a few la    | 0<br>arge limbs.    | 0               | 5K                                | Thunderstorm Wind (EG50)  |
| Knox County                | •-                  | 4400                         |                |                 |                     |                 |                                   |   |
| Danville                   | 27<br>Thunde        | 1430EST<br>erstorm winds do  | wned two tree  | es and a few l  | 0<br>arge limbs.    | 0               | 7K                                | Thunderstorm Wind (EG50)  |
| <b>Holmes County</b>       |                     |                              |                |                 |                     |                 |                                   |   |
| Killbuck                   | 27<br>Thunde        | 1505EST<br>erstorm winds do  | wned a few la  | arge trees.     | 0                   | 0               | 8K                                | Thunderstorm Wind (EG50)  |





August 2003 Time Local Path Length Path Number of Estimated Persons Width Damage OHIO, North **OHZ022 Portage** 27 0 0 75K Flood Thunderstorms dumped one to three inches of rain on much of Portage County causing widespread urban and lowland flooding. Several small streams and creeks left their banks forcing the closure of a couple roads in the southern portion of the county. **Marion County** 29 1345EST Hail(0.88) Marion Nickel size hail was observed. **Trumbull County** Countywide 29 250K Flash Flood Thunderstorms dumped up to three inches of rain on Trumbull County during the evening hours. Spotters in Warren measured 2.34 inches of rain between 6 and 7 p.m. with a storm total of 2.75 inches. 2.90 inches of rain was measured in Leavittsburg with 2.5 inches in Howland Township. Widespread urban and lowland flooding occurred in the county. Water up to two feet deep was reported on roads in Warren, Niles and Howland Township. Dozens of basements experienced basement flooding. PENNSYLVANIA, Northwest **Erie County** Girard 1125EST 5K Thunderstorm Wind (EG50) Thunderstorm winds downed several large tree limbs. PAZ001 Northern Erie 0 05 100K Flood Thunderstorms dumped locally heavy rains on Erie County causing several small streams and creeks to leave their banks. Spotters measured 3.50 inches of rain in East Springfield with 2.30 inches measured in Girard. There were brief road closures in Lake City and Greenfield Township. **PAZ002 Southern Erie** 50K Flood 2100EST Thunderstorms dumped locally heavy rains on southern Erie County causing several small streams and creeks to leave their banks. Lowland flooding occurred near Corry where 2.70 inches of rainfall was measured. Several roads in the area had to be briefly closed. **Crawford County** Meadville 300K Flash Flood 09 Thunderstorms dumped heavy rains on the central portion of Crawford County. Rainfall rates were well in excess of an in per hour and spotters measured a storm total of 3.1 inches just to the northeast of Meadville. Rapid rises in small streams and creeks occurred and many roads were quickly flooded. Several people had to be rescued from stranded vehicles near Meadville. Flood waters on some roads were reported to be over four feet in depth. **Crawford County** Meadville 1735EST 20K Thunderstorm Wind (EG50) Thunderstorm winds downed a dozen trees in and around Meadville. **Crawford County** 600K Countywide 10 0655EST 0930EST Flash Flood

Thunderstorms dumped very heavy rains on Crawford County. Rainfall rates exceeded one inch per hour. Rapid rises in small



**Erie County** 

**North East** 

**Erie County** Erie

**Erie County** 

**Erie County** Lake City to Edinboro

Girard

#### **National Weather Service** Storm Data and Unusual Weather Phenomena



August 2003 Path Length (Miles) Time Local/ Path Width Number of Estimated Persons Damage

| PENNSYLVANIA, Northwo |
|-----------------------|
|-----------------------|

streams and creeks occurred throughout the county and several roads were washed out. Many other roads had be closed due to flooding. Flood waters up to four feet deep were reported at some locations and dozens of homes in the county experienced basement flooding. 1330EST 1340EST 16 50K Thunderstorm Wind (EG50) Thunderstorm winds downed many trees in Northeast. At least five vehicles were damaged by fallen trees and limbs. 16 1335EST 10K Thunderstorm Wind (EG50) Thunderstorm winds downed several large trees. 1630EST 1638EST 0 0 2K Thunderstorm Wind (EG50) 16 Thunderstorm winds toppled a tree and several large limbs. 26 0910EST Hail(0.75) Penny size hail was observed five miles east of Cambridge Springs. 0915EST 0920EST 25K Thunderstorm Wind (EG50) 26 Thunderstorms winds downed many trees in Lake City and Edinboro. 0945EST 0955EST Thunderstorm Wind (EG50) 26 15K

**Crawford County** 

**Crawford County** Cambridge Spgs

Meadville to Cochranton

Thunderstorm winds downed several trees and large limbs in Meadville and one tree in Cochranton.

**Erie County** 

Waterford 1325EST 0 2KThunderstorm Wind (EG50)

Thunderstorm winds downed several large tree limbs.